

Computer support for 'all-round' ECM processing of blades

Bogoveev N., Firsov A., Filatov E., Tikhonov A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

A mathematical model has been created for complex simulation of the process of blade surface formation in unsteady mode. It is based on the assumptions of the one-dimensional theory in the feather regions of blade and the assumptions of two-dimensional electrostatic field in the edges vicinities. Laplace equation is solved by panel method. One-dimensional unsteady transfer equations are solved along edges by finite difference method.

[http://dx.doi.org/10.1016/S0924-0136\(00\)00818-9](http://dx.doi.org/10.1016/S0924-0136(00)00818-9)
